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ABSTRACT

The beginning course provides students with the various techniques and supplies necessary for finishing and refinishing in the home and for home furnishings. Course content includes goals, specific objectives, orientation, selecting tools, equipment, finishes, finishing problems, and maintenance and safety. Also incorporated are consumer knowledge, working as a finisher, vocational opportunities, and an evaluation. A bibliography and posttest are appended. (NH)

LC6060 07

AUTHORIZED COURSE OF INSTRUCTION FOR THE QUINMESTER PROGRAM

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
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DADE COUNTY PUBLIC SCHOOLS

Course Outline
CONSTRUCTION 7-9 PREVOCATIONAL - 5846
(Painting and Finishing in the Home)
Department 48 - Quin 5846.07

CE003412

DIVISION OF INSTRUCTION • 1974

DADE COUNTY PUBLIC SCHOOLS
1450 NORTHEAST SECOND AVENUE
MIAMI, FLORIDA 33132

Course Outline

CONSTRUCTION 7-9 PREVOCATIONAL - 5846
(Painting and Finishing in the Home)

Department 48 - Quin 5846.07

county office of
VOCATIONAL AND ADULT EDUCATION

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Dade County Public Schools
Miami, Florida 33132

July, 1973

Published by the School Board of Dade County

Course Description

<u>5846</u>	<u>48</u>	<u>5846.07</u>	<u>Painting and Finishing in the Home</u>
State Category	Course Dept.	County Course	Course Title
Number	Number	Number	

This course of study is designed to provide the student with the various techniques and problems of finishing in the home and its furnishings as well as refinishing. The student's involvement will include reasons for selection and techniques of certain applications. The student as a result will become familiar with the selection and supplies required for proper finishing.

Indicators of Success: There are no prerequisites to this course.

Clock Hours: 45

The material presented in this course provides a plan of procedure for the teacher in presenting a unit on the techniques and supplies necessary for the finishing of various types of surfaces found within the home.

The student will develop skills by performing various techniques, solving given finishing problems common to the average home. The student also will select the proper materials and tools necessary for finishing.

There are no requirements or pre-requisites to this course. Knowledge gained in this course will be beneficial to the student who wishes to increase his learning in the field of home maintenance. The knowledge gained in this course will also be effective in saving home maintenance costs and will establish a foundation for vocational opportunities open to the skilled finisher.

This is a beginning course. The total number of hours of instruction is 45, of which approximately 40 hours are for practical application of knowledge and skills. The outline consists of ten major blocks of instruction which are subdivided into several units each. Block IX covers a comprehensive written behavioral measurement.

The classroom instruction includes lectures, demonstrations, group discussions, study periods, independent research and practical application.

Approximately 40 hours are spent in the shop laboratory with the students developing proficiency in practical finishing techniques.

This outline was developed through the cooperative efforts of the instructional and supervisory personnel, the Quinmester Advisory Committee and the Vocational Curriculum Materials Service, and has been approved by the Dade County Vocational Curriculum Committee.

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TABLE OF CONTENTS
with Suggested Hourly Breakdown

	Page
PREFACE	i
GOALS	iv
SPECIFIC BLOCK OBJECTIVES	v
BIBLIOGRAPHY	5
BLOCK	
I. ORIENTATION (3 Hours)	
Objectives of the Course	1
Classification	1
II. SELECTING TOOLS AND EQUIPMENT (5 Hours)	
Hardware	1
Software	1
III. SELECTING FINISHES (5 Hours)	
Basic Finishes	2
How To Use Color	2
IV. FINISHING PROBLEMS (10 Hours)	
Types	2
Causes	2
Cures	2
V. MAINTENANCE AND SAFETY (3 Hours)	
Hardware Maintenance	3
Safety and Storage	3
VI. CONSUMER KNOWLEDGE (2 Hours)	
Market Analysis	3
Hardware	3
Software	3
VII. WORKING AS A FINISHER (12 Hours)	
Assisting Others	3
Critical Analysis	3
Discussion	3
VIII. VOCATIONAL OPPORTUNITIES (2 Hours)	
Marketing	3
Skills	3
Specialists	4
Employment Requirements	4
IX. EVALUATION (3 Hours)	
Written	4
Oral	4

X. QUINMESTER POST-TEST

APPENDIX - QUINMESTER POST-TEST SAMPLE 7

GOALS

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The student must be able to demonstrate:

1. Teacher selected methods of "Finishing Preparations" by practical performance upon given surfaces.
2. The ability to select the proper items from a teacher-selected inventory of tools and equipment necessary for the completion of a finishing job as specified by the teacher.
3. The ability to select the proper finishing software (interior and exterior - paint, lacquer etc.) from a teacher-selected inventory of software supplies necessary to finishing a job as specified by the teacher.
4. The ability to diagnose specific problems indigenous to finishing and list the solutions as designed by the teacher.
5. Teacher selected methods of proper maintenance of brushes and other finishing equipment by practical demonstration.
6. The ability to list and identify terms relevant to the purchasing of finishing needs, including hardware and software as specified by the teacher.
7. The ability to assist others in teacher designed activities including job performance tasks as prescribed by a teacher-designed check list.
8. The ability to list and define in writing various jobs and opportunities that are available to skilled painters and finishers as introduced through guest or teacher lecture and independent research study.
9. The knowledge and practical experience gained in the TOTAL course by performing to a minimum 85% accuracy on a teacher-designed checklist.

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SPECIFIC BLOCK OBJECTIVES

BLOCK I - ORIENTATION

The student must be able to demonstrate:

1. By displaying his class notebook on the course, activities as defined by teacher prepared lectures.
2. The ability to define orally a list of compatible finishing preparations selected by the teacher.
3. The ability to prepare surfaces to be finished as specified by the teacher.

BLOCK II - SELECTING TOOLS AND EQUIPMENT

The student must be able to demonstrate:

1. The ability to select the appropriate hardware in order to complete teacher specified job performances.
2. The ability to select the appropriate software in order to complete teacher specified job performances.
3. The knowledge of hardware and software specific to Job Performance by passing a written exam with a minimum 85% accuracy.

BLOCK III - SELECTING FINISHES

The student must be able to demonstrate:

1. The ability to differentiate and define specific finishings in writing from a teacher prepared list.
2. The ability to select finishings to complete teacher specified job performances.
3. The skill to apply finishings as specified by the teacher.
4. The ability to list in writing those steps necessary to complete a teacher designed finishing task.

BLOCK IV - FINISHING PROBLEMS

The student must be able to demonstrate:

1. An understanding of finishing problems by a teacher-directed group discussion.
2. The ability to discuss specific conditions that may result in unsatisfactory job completion as called for by the teacher.
3. The ability to diagnose specific problems and demonstrate his manual skill in correcting the problems as stipulated by the teacher.

BLOCK V - MAINTENANCE AND SAFETY

The student must be able to demonstrate:

1. The ability to select the correct solvents for proper maintenance of specified hardware and software.

2. The ability to use solvents and other chemicals safely and to demonstrate proper storage of these chemicals as specified by national and state regulated safety codes.

BLOCK VI - CONSUMER KNOWLEDGE

The student must be able to demonstrate:

1. The ability to discuss specific types of finishings as elicited by the teacher.
2. The ability to complete a teacher-designed requisition for purchase of materials relevant to job completion of a required project.
3. By display, brochures and other materials obtained through research and independent study.

BLOCK VII - WORKING AS A FINISHER

The student must be able to demonstrate:

1. The ability to assist others in teacher-designed activities and demonstrate his manual skills in completing a group effort as prescribed by a teacher-designed checklist.
2. The ability to discuss or criticize constructively with the teacher and the group, the operations performed by the group during the teacher-assigned activity.

BLOCK VIII - VOCATIONAL OPPORTUNITIES

The student must be able to demonstrate:

1. By displaying his class notebook, the ability to list jobs and opportunities that are available to skilled "Finishers" as introduced through guest or teacher lecture.
2. The ability to list and define in writing, the various job opportunities available to the skilled "Finisher", through independent research and study.

BLOCK IX - EVALUATION

The student will be able to demonstrate:

1. The knowledge and practical experience gained in the total course by performing to a minimum 85% accuracy on a teacher-designed check list.

BLOCK X - QUINMESTER POST-TEST

The student must be able to:

1. Satisfactorily complete the quinmester post-test.

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Course Outline

CONSTRUCTION 7-9 PREVOCATIONAL - 5846
(Painting and Finishing in the Home)

Department 48 - Quin 5846.07

I. ORIENTATION

- A. Objectives of the Course
 - 1. Standards
 - 2. Methods of evaluation
 - a. Paper and pencil tests
 - b. Oral
 - c. Manipulation
 - d. Diagnosis and job performance
 - 3. Teaching methods
 - a. Lecture
 - b. Demonstration
 - c. Discussion
- B. Classification
 - 1. Preparations
 - a. Leveling
 - b. Smoothing
 - c. Cleaning
 - 2. Procedures
 - a. Selecting compatible procedures
 - b. Patch tests, application of
 - 3. Standards - results
 - a. Quality of finished product
 - b. Teacher-designed evaluation

II. SELECTING TOOLS AND EQUIPMENT

- A. Hardware
 - 1. Brushes
 - 2. Rollers
 - 3. Fans
 - 4. New painting devices
 - a. Tilting tray
 - b. Disposable brushes
 - 5. Scrapers and knives
- B. Software
 - 1. Solvents
 - a. Turpentine
 - b. Mineral spirits
 - 2. Finishes
 - a. Latex
 - b. Enamel
 - c. Varnish

- d. Shellac
- e. Wax
- f. Stain
- g. Oil
- h. Sealers
- i. Primer
- j. Polyurethane

III. SELECTING FINISHES

- A. Basic Finishes
 - 1. Water base
 - 2. Oil base
 - 3. Rubber base
 - 4. Polyurethane
- B. How To Use Color
 - 1. Primary
 - a. Yellow
 - b. Blue
 - c. Red
 - 2. Secondary
 - a. Orange
 - b. Purple
 - c. Green
 - 3. Tertiaries
 - a. Tints
 - b. Tones
 - c. Shades
 - d. Blues

IV. FINISHING PROBLEMS

- A. Types
 - 1. Alligatoring
 - 2. Checking
 - 3. Cracking and scaling
 - 4. Blistering and peeling
 - 5. Wrinkling
 - 6. Tackiness and slow drying
 - 7. Running and sagging
 - 8. Chalking
- B. Causes
 - 1. Improper techniques
 - 2. Inadequate priming
 - 3. Wrong finish for surface conditions
 - 4. Inferior paint
 - 5. Wrong thinner
- C. Cures
 - 1. Proper diagnosis
 - 2. Repeat steps for preparation

IV. FINISHING PROBLEMS (Contd.)

- a. Prepare surfaces
- b. Follow right procedure

V. MAINTENANCE AND SAFETY

A. Hardware Maintenance

- 1. Brushes preparation
 - a. Soaking in linseed oil to prepare
 - b. Cleaning
 - (1) Oil base - turpentine mineral spirits
 - (2) Shellac - lacquer thinner
 - (3) Latex - water
 - (4) Polyurethane - ethyl - dic
- 2. Rollers
- 3. Pads
- 4. Scrapers/knives

B. Safety and Storage

- 1. Storage
- 2. Ventilation
- 3. Handling
- 4. Disposal

VI. CONSUMER KNOWLEDGE

A. Market Analysis

B. Hardware

C. Software

VII. WORKING AS A FINISHER

A. Assisting Others

B. Critical Analysis

C. Discussion

VIII. VOCATIONAL OPPORTUNITIES

A. Marketing

- 1. Chemical research
- 2. New product research
- 3. Consumer demand

B. Skills

- 1. Interior designer

2. Exterior designer
 3. Home painter
 4. Furnishing finisher
 - a. Handyman
 - b. Painting contractor
- C. Specialists
1. Spotters
 2. Finishers
 3. Strippers
- D. Employment Requirements
1. High school vocational course
 2. Trade school (opt.)
 3. Work experience

IX. EVALUATION

- A. Written
1. Written exam
 2. Notebook evaluation
- B. Oral
1. Teacher-elicited response
 2. Practical demonstration

X. QUINMESTER POST-TEST

BIBLIOGRAPHY
(Painting and Finishing in the Home)

Basic References:

1. Hammond, James, J., and Others. Woodworking, Technology. Bloomington, Illinois: McKnight and McKnight Publishing Company, 1961. Pp. 411.
2. Nunn, Richard E. Popular Mechanics. Complete Manual of Home Repair and Improvement. New York: Book Division, The Hearst Corporation, 1972. 1p. 480.
3. Reader's Digest Complete Do-It-Yourself Manual. Pleasantville, New York: The Reader's Digest Association, 1973. Pp. 600.

APPENDIX

Quinnester Post-Test Sample

Name _____ Date _____ Score _____

True-False Test Items

Each of the following statements is either true or false. If the statement is true, draw a circle around the letter T following it; if the statement is false draw a circle around the F. If a statement is false in part, it is entirely false.

- | | | |
|---|---|---|
| 1. The term alligatoring refers to a pattern of cracks in a finished surface. | T | F |
| 2. Enamel is an opaque, water base finish. | T | F |
| 3. Casein refers to a base for water soluble paints derived from milk and soya beans. | T | F |
| 4. Retarder is the term used to describe a solvent used to speed the drying or hardening rate of a finish. | T | F |
| 5. When paint or paint brushes are contaminated with small foreign particles, they are termed "lousy." | T | F |
| 6. Flat brushes are used for general purpose finishing. | T | F |
| 7. Finishing is the application of selected stains, fillers, varnishes, paints, enamels, oils, waxes and transfers to a prepared surface. | T | F |
| 8. The prime reason for finishing is to make a surface look nice. | T | F |
| 9. Oil stains preserve wood and bring out the beauty without raising the grain. | T | F |
| 10. Oil stains should not be stored in strong light. | T | F |
| 11. Chairs or stools are considered safe substitutes for ladders. | T | F |
| 12. There are set sequences when finishing doors and windows. | T | F |
| 13. After using the proper solvents to clean brushes, soap and water may be used to further wash away the solvent and protect the bristles. | T | F |
| 14. Keeping up with consumer knowledge can often simplify the job. | T | F |

Multiple Choice Test Items

Each statement needs a word, figure or phrase to make it correct. Only one of the choices listed is correct. Place the letter of the choice you make in the space provided at the left.

- ___ 1. Finishes provide
- a. protective coatings
 - b. retard or kill fungi and bugs
 - c. improve sanitary conditions
 - d. only A & C
 - e. all of the above
- ___ 2. If a wood surface is dented, it can be corrected by
- a. applying a drop of water
 - b. placing a small cotton pad or absorbent paper soaked in warm water on the dent
 - c. sanding the rest of the surface down
 - d. A & B
 - e. Only C
- ___ 3. All finishing products are made consumer safe
- a. Lessening a need for safe practice
 - b. Or are removed from consumer purchase
 - c. Is a false statement
 - d. A & B
 - e. None of the above
- ___ 4. Old brushes can sometimes be salvaged by
- a. Soaking in a paint-remover
 - b. By using a brush softener sold commercially
 - c. Can sometimes not be salvaged
 - d. None of the above
 - e. All of the above

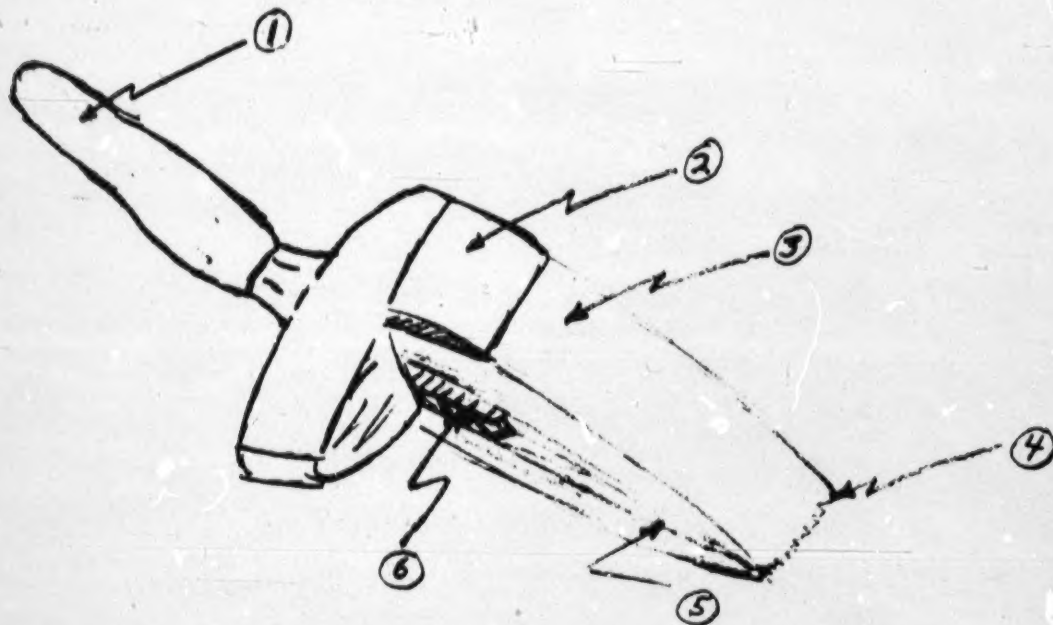
Completion Test Item

Fill in the blank or blanks with the word or words that make the statement correct.

1. The three primary colors are _____

Identification Test

Identify the principal parts of the brush below



1. _____
2. _____
3. _____

4. _____
5. _____
6. _____

ANSWER KEY TO QUINMESTER POST-TEST

True-False Test Items

- | | |
|----------|-----------|
| 1. True | 8. False |
| 2. False | 9. True |
| 3. True | 10. True |
| 4. False | 11. False |
| 5. True | 12. True |
| 6. True | 13. True |
| 7. True | 14. True |

Multiple Choice Test Items

- | | |
|------|------|
| 1. a | 3. c |
| 2. d | 4. e |

Completion Test Item

1. Yellow, blue, red

Identification Items

- | | |
|------------------|------------------|
| 1. Handle | 4. Tip |
| 2. Metal Ferrule | 5. Bristles |
| 3. Heel | 6. Filler Strips |